

Pratyush Bindal

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Linkedin

Personal Website

Education

Birla Institute of Technology and Science, Pilani

Bachelor of Engineering in Computer Science (CGPA: 9.57 / 10.00)

Expected July 2026

Hyderabad, Telangana

- **Relevant Coursework:** Data Structures and Algorithms, Database Systems, Object Oriented Programming, Discrete Structures & Mathematics, Logic in Computer Science, Probability & Statistics, Linear Algebra

G. D. Goenka Public School

High School (Class XII: 96.6%)

2018-2022

Muzaffarnagar, Uttar Pradesh

Relevant Coursework: Physics, Chemistry, Mathematics, English, Informatics Practices

Experience

Birla Institute of Technology and Science, Pilani

Undergraduate Teaching Assistant: PHY F111 (Mechanics, Oscillations and Waves)

Aug 2023 – Dec 2023

Hyderabad, Telangana

- Prepared study materials and quizzes relevant to the course
- Supported classroom activities, tutoring, and reviewing work

Projects

Reinforcement Learning In Cybersecurity | PyTorch, TensorFlow, Python

- Implementation of AE-SAC Model on NSL-KDD Dataset for Intrusion Detection System based on <https://doi.org/10.1016/j.cose.2023.103502>
- Evaluation and Comparison of Various ML-RL Techniques and Methodologies for Fraud and Anomaly Detection on MQTT, NSL-KDD and AWID dataset

Machine and Deep Learning Projects | PyTorch, TensorFlow, Python

- Built a fully functional neural network recognising Handwritten Digits from scratch without using any libraries
- Built a working PyTorch-based model of Convolutional Based Attention Module. Influenced from <https://arxiv.org/abs/1807.06521>
- Made Decoder only Generative Pre-Trained Transformer. Influenced from <https://arxiv.org/abs/1706.03762>
- Created Heart Disease Predictor based on various input parameters

Expense Tracker | Dart, Flutter SDK, Makefile

- Developed full-scale app to track your spending, categorising them and generating reports.
- Can add custom colour-coded categories, Gives multiple Recurrence Spending Options and Timestamps of Spending Addition, Generates Bar Graph Report of Spending

BITSBids | HTML, CSS, JS, React.Js, Spring Boot, Mongo DB, Java, Google OAuth

- Built ready-to-scale Full Stack Bidding Website exclusive to BITSians
- Implemented Dynamic Price Updation, Multiple Bids Prioritisation, Anonymous Chat client & Filtered Product Search

Technical Skills

Languages: C, C++, Java, Python, HTML, JavaScript, Dart, TypeScript, Prolog, Verilog HDL, Assembly

Technologies: TensorFlow, PyTorch, React.js, Node.js, Solid.js, Spring Framework, Bootstrap, Flutter

Concepts: Artificial Intelligence, Machine Learning, Neural Networks, API, Database Normalization

Databases: NoSQL, PostgreSQL and SQL-based databases like MongoDB, Supabase, Firebase, Oracle MySQL

Honours and Awards

- 100% Merit Scholarship Awardee (Awarded to Top 1% of the batch)
- 80% Merit-cum-Need Scholarship Awardee (Awarded to Top 3% of the batch)
- Among Top 255 students in IOQA 2020-21 organised by IAPT-HBCSE

Volunteership and Extracurriculars

Academic Counselling Cell

Mathematics Mentor

- Mentored 1000+ students undergoing Mathematics I course at the institute

Sept 2023 – Dec 2023

Hyderabad, Telangana

Ad Astra - Astronomy and Science Club

Research, Editorial and Events Member

- Gained an insightful experience researching about recent advancements in Astronomy & Astrophysics

Oct 2022 – Sept 2023

Hyderabad, Telangana